

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A recordable optical record carrier comprising an information layer of a recording material for forming marks and lands representing an information, a substrate layer carrying said information layer and a cover layer covering said information layer, said substrate layer comprising a radially evolving groove structure filled with recording material, wherein said groove structure comprises a main groove divided into two neighboring sub-grooves separated by a barrier wherein the height of said barrier is equal to the height of the substrate between two neighboring main grooves.

2. (Previously Presented) The recordable optical record carrier as claimed in claim 1, wherein said barrier is made of

substrate material.

Claim 3 (Canceled)

4. (Currently Amended) The recordable optical record carrier as claimed in claim 1, wherein the recording material is an organic material, ~~in particular comprising a dye, or an anorganic material, in particular comprising a phase-change material.~~

5. (Previously Presented) The recordable optical record carrier as claimed in claim 1, wherein the shape of the main groove and the sub-grooves is adapted so as to obtain marks having an essentially oval shape in radial direction.

6. (Previously Presented) The recordable optical record carrier as claimed in claim 1, wherein the width of the sub-grooves in radial direction increases in the direction facing away from said substrate layer, in particular having flank angles ( $\alpha$ ) in an angle range of 10 to 90°.

7. (Previously Presented) The recordable optical record carrier as claimed in claim 1, further comprising a metal and/or a dielectric layer between said information layer and said cover layer.

8. (Previously Presented) The recordable optical record carrier of claim 1, further comprising a metal layer between the information layer and the cover layer.

9. (Previously Presented) The recordable optical record carrier of claim 1, further comprising a metal layer between the substrate layer and the information layer.

10. (Previously Presented) The recordable optical record carrier of claim 9, wherein the metal follows a contour of the groove structure.

11. (Previously Presented) The recordable optical record carrier of claim 10, further comprising a dielectric layer between the metal layer and the cover layer.

12. (Previously Presented) The recordable optical record carrier of claim 1, further comprising a dielectric layer between the substrate layer and the information layer.

13. (Previously Presented) The recordable optical record carrier of claim 12, wherein the dielectric follows a contour of the groove structure.

14. (Previously Presented) The recordable optical record carrier of claim 13, further comprising a metal layer between the information layer and the cover layer.